

# ABSTRACT OF THE DISCLOSURE

5 The present plasma generating apparatus includes a vacuum container an anode and a cathode formed by a plurality of electrodes, a power supply for applying a high voltage to anode and cathode, and switching elements for switching the electrodes in anode and cathode to which the high voltage is applied. The combinations of the electrodes are switched by switching elements so as to form a sheet plasma at any desired angle relative to the directional electromagnetic waves.